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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/526,442	03/16/2000	Kamran Ahmed	10442-5"US" JA/mb	2596

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EXAMINER

BRIER, JEFFERY A

ART UNIT PAPER NUMBER

2672

DATE MAILED: 08/07/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/526,442

Applicant(s)

AHMED, KAMRAN

Examiner

Jeffery A. Brier

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 June 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 26 June 2002 is: a) ☐ approved b) ☒ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. The 06/26/2002 amendment has been entered. Pages 2, 4, 7 and 8 as well as claims 3, 5 and 7 have been amended.

Drawings

2. The proposed drawing correction filed on 06/26/2002 has been disapproved. The proposed amendments to figures 2 and 3 are approved. The proposed amendments to figure 1 of adding reference numbers 26, 28, 30, 32, 36 and 38 is approved, however, the addition of reference number 34 for Graphics Device Driver is not approved because reference number 34 was previously used to refer to multiplexer 34 and the change to the input of multiplexer 33 is not approved. In the drawings filed on 03/16/2000 multiplexer 33 received one input from CRTC1 and one input from CRTC2. In the 06/26/2002 marked up copy of proposed changes to figure 1 multiplexer 33 receives both inputs from CRTC2. Clearly this was not intended by the originally filed specification. Applicant needs to submit a marked up copy of proposed changes to figure 1 that is supported by the originally filed specification, that correctly references the Graphics Device Driver with a reference number and that correctly shows the lines into multiplexer 33. A proper drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The correction to the drawings will not be held in abeyance.

3. Applicant also needs to amend the specification to include a proper reference to the Graphics Device Driver and its associated reference number in order to comply with

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37 CFR 1.84(p)(5). A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 is indefinite because at line 6 the phrase "(blend and/or overlay)" does not clearly convey that which applicant has described as the invention. Applicant described at page 7 lines 20 and 21 and at page 7 line 30 to page 8 line 8 and in figure 3 a sub picture blending unit or graphical overlay unit 18 combining as being blending or overlay. Applicant did not describe how to blend and overlay. Thus, applicant has failed to clearly claim applicants invention. Claims 2-7 depend upon claim 1 and do not correct the indefiniteness of claim 1, thus, they are indefinite for the same reasons that claim 1 is indefinite.

Specification

JB
8/6/08 5,58. The disclosure is objected to because of the following informalities: the phrase "(blend and/or overlay)" at page 2 line 19 fails to summarize applicants invention for the same reasons given in the above 35 U.S.C. 112, second paragraph rejection of claim 1.

Appropriate correction is required.

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Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ranganathan, U.S. Patent No. 5,764,201.

Ranaganathan teaches a first display controller for combining graphics and movie for displaying graphics and movie on the LCD graphics display in the simultaneous mode, column 7 lines 42-50. Ranaganathan's first display controller reads from a graphics memory (column 12 lines 15-19) at least two first surfaces (graphics and movie) into at least two pixel paths 36 and 34, converts the second surface (movie) from YUV to RGB, scales the movie surface in scaler 64, and combines the at least two first surfaces in multiplexer 42, said first surfaces containing any one of RGB (graphics) and YUV (movie) format video. Ranaganathan's first display controller is caused to select and read said first surfaces, convert said first surfaces into a like first format at least when said first surfaces are not all in said like first format (performed in color space converter 66), scaling at least one of said first surfaces (performed in scaler 64), combining said first surfaces to obtain a combined first surface (performed in multiplexer 42), and outputting said combined first surface to provide a first output stream of pixel data (output to path 30). In Ranaganathan's first display controller flexibility is provided by selection of said first surface as well as scaling and blending of

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said first surfaces, whether said first surface is in RGB format, YUV format or mixed RGB/YUV format.

Ranaganathan does teach a second display controller because in the dual mode, column 7 lines 51-67 the CRT displays the movie and the LCD displays the graphics. However, the circuitry shown by Ranaganathan does not allow the CRT and the LCD to display different combined images. However, at column 7 lines 63-65 Ranaganathan suggests that to do so would be desirable and that additional logic is needed.

Ranaganathan fails to teach a second display controller having the same features of the first display controller. Specifically Ranaganathan fails to teach providing a second display controller able to read from a graphics memory at least two second surfaces into at least two pixel paths, convert at least one of the at least two second surfaces, scale at least one of the at least two second surfaces, and combine (blend and/or overlay) the at least two second surfaces, said second surfaces containing any one of RG8 and YUV format video; causing said second display controller to select and read said second surfaces, convert said second surfaces into a like second format at least when said second surfaces are not in said like second format, scaling at least one of said second surfaces, combining said second surfaces to obtain a combined second surface, and outputting said combined second surface to provide a second output stream of pixel data, whereby flexibility is provided by selection of said second surface as well as scaling and blending of said second surface, whether said second surface is in RGB format, YUV format or mixed RGB/YUV format.

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It would have been obvious to one of ordinary skill in the art at the time of applicants invention to modify Ranaganathan to have additional logic, as suggested by Ranaganathan at column 7 lines 63-65, so a first and second display controller exists allowing a first display to display combined scaled and converted first surfaces and allowing a second display to display combined scaled and converted second surfaces.

Allowable Subject Matter

9. Claims 2-7 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims. These claims specify the functions of the multiplexers 33 and 34 (claim 2), the locations of scaling unit 14 and scaling unit 24 (claims 3 and 5), the location of a scaling unit 24 (claims 4 and 6), and the use of the drawing engine to perform the scaling. It should be noted that claim 1 at lines 11 and 16 does not specify the location of the scaling. Ranaganathan places the scaler prior to the color space converter while applicant's figure 2 shows scaler 14 after the color space converter and shows an output scaler 24 after blending unit 18, where blending unit 18 corresponds to the combining function of Ranaganathan's multiplexer 42.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffery A. Brier whose telephone number is (703) 305-4723. The examiner can normally be reached on M-F from 6:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached at (703) 305-4713).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

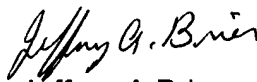
Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.


Jeffery A Brier
Primary Examiner
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